

AMENDMENT

In the Specification:

Please replace paragraph [0057] beginning on page 21 with the following rewritten paragraph:

[0057] In one embodiment, the transcription factor comprises a zinc finger motif.

As used herein, a “zinc finger motif” refers to a repeating motif that permits a region of a protein to fold around a central Zn²⁺ ion. In one embodiment, the zinc finger motif comprises a C2H2 motif. As used herein, a “C2H2 motif” refers to the sequence of the repeating unit within the zinc finger, where the sequence is (Tyr/Phe) X Cys X₂₋₄ Cys X₃ (Phe/Tyr) X₅ Leu X₂ His X₃₋₄ His (SEQ ID NO:1), where X is any amino acid. *See MOLECULAR CELL BIOLOGY 449.* In another embodiment, the zinc finger motif comprises a C4 motif. As used herein, a “C4 motif” refers to the sequence of the repeating unit within the zinc finger, where the sequence is Cys X₂ Cys X₁₃ Cys X₂ Cys X₁₄₋₁₅ Cys X₅ Cys X₉ Cys X₂ Cys (SEQ ID NO:2), where X is any amino acid. *See MOLECULAR CELL BIOLOGY 449.* Exemplary zinc finger proteins include, but are not limited to members of the KLF, Sp1, nuclear hormone receptor, and GATA protein families. In one embodiment, the transcription factor comprising a zinc finger motif includes, but is not limited to GATA-1 (erythroid), Sp1 (ubiquitous), EKLF (erythroid), FKLF (fetal), BKLF (basic), GKLF (gut), and LKLF (lung). In another specific embodiment, the zinc finger motif protein is a zinc finger motif-containing nuclear hormone receptors. Such receptors include, but are not limited to androgen, estrogen, thyroid, progesterone, and glucocorticoid receptors. In one embodiment, the zinc finger-containing nuclear hormone receptor is RAR and RXR. In a specific embodiment, the zinc finger-containing protein is Wilm’s tumor suppressor protein (*i.e.*, WT1) implicated in kidney differentiation and tumorigenesis. WT1 strongly regulates amphiregulin, a member of the epidermal growth factor family, among other genes. In a specific embodiment, the zinc finger proteins are the BRCA1 and BRCA2 proteins implicated in hereditary breast and ovarian cancers. In a specific embodiment, the zinc finger protein is KRAB repressor domain-containing proteins that are involved in epigenetic silencing of genes. In a specific embodiment, the zinc finger protein contain the BTB/POZ domain and includes, but is not

limited to the PLZF (promyelocytic leukemia zinc finger) protein, which is fused to RAR α (retinoic acid receptor alpha) in a subset of acute promyelocytic leukemias (APLs) and acts as a potent oncogene.

Please replace paragraph [0058] beginning on page 22 with the following rewritten paragraph:

[0058] In another embodiment, the transcription factor comprises a leucine zipper motif. As used herein, a “leucine zipper motif” refers to a sequence within the DNA binding domain containing leucine residues present with regular, seven amino acid periodicity at every second turn along the hydrophobic face of an α -helix, where the amino acid sequence is [KR]-x(1,3)-[RKSAQ]-N-x(2)-[SAQ](2)-x-[RKTAENQ]-x-R-x-[RK] (SEQ ID NO:3). Sauer, R.T. *Nature* 347: 514-15 (1990). In one embodiment, the transcription factor containing a leucine zipper is c-fos, c-jun, or C/EBP α . In another embodiment, the transcription factor is phosphorylated CREB.